

Use the following functions to answer questions 1-8.

$$f(x) = x + 3$$

$$g(x) = x^2 - 1$$

$$h(x) = \frac{1}{x-2}$$

$$j(x) = \sqrt{x+1} - 2$$

1.  $(f+g)(3)$

2.  $f(0)/h(0)$

3.  $g(2)-j(2)$

4.  $(f \cdot j)(3)$

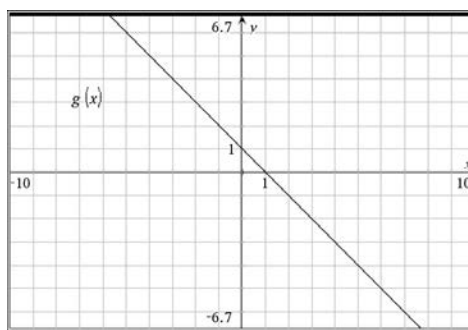
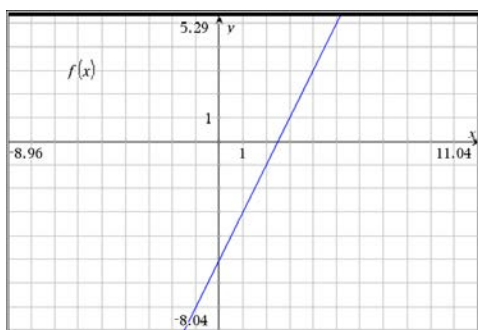
5.  $(g-h)(-2)$

6.  $f(8) + j(8)$

7.  $(fg)(x+1)$

8.  $(f+g)(t^2)$

Using the following graphs to answer questions 9-12.



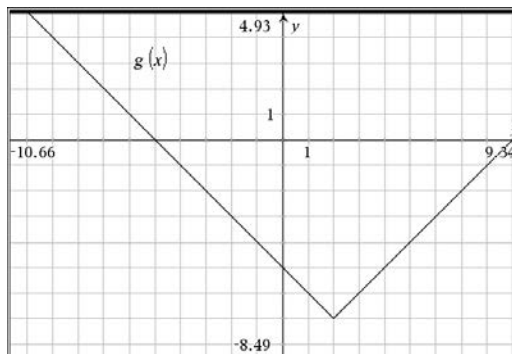
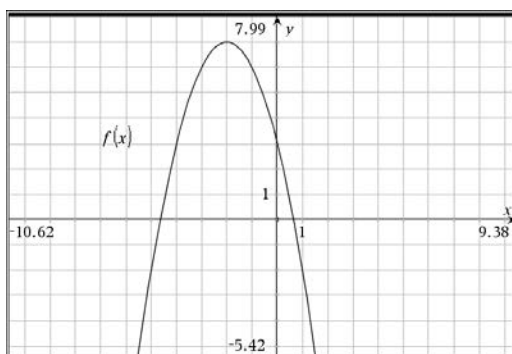
9.  $(f+g)(-2)$

10.  $(f/g)(0)$

11.  $f(2) - g(2)$

12.  $f(4)g(4)$

Use the following graphs to answer questions 13-16.



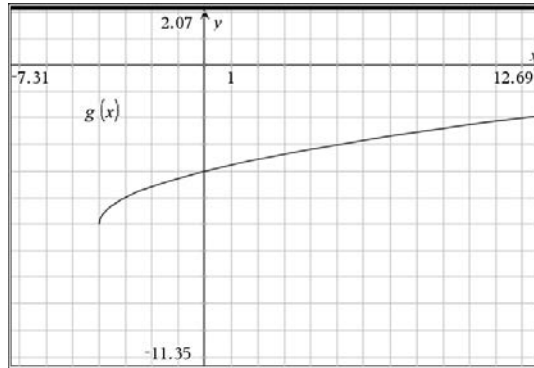
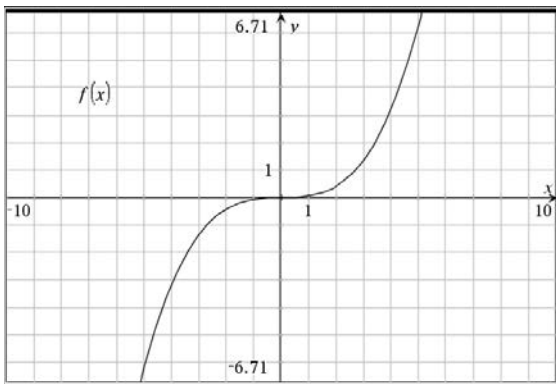
13.  $(f+g)(-2)$

14.  $(f/g)(-3)$

15.  $f(1) - g(1)$

16.  $f(-5)g(-5)$

Use the following graphs to answer questions 17-20.



17.  $(f+g)(-4)$

18.  $(f/g)(0)$

19.  $f(5) - g(5)$

20.  $f(-4)g(-4)$

\*21. Evaluate the function for the given values.

$$J(t) = 2t^2 - 4$$

a)  $J(-2)$

b)  $J(x+1)$

c)  $J(t) = 0$

d)  $J(t) = 4$